

Product datasheet for **SC122910**

Neuroglobin (NGB) (NM_021257) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Neuroglobin (NGB) (NM_021257) Human Untagged Clone
Tag:	Tag Free
Symbol:	Neuroglobin
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_021257 edited
 CGGAGGAGATGGCGCGGCACGTGCGGTGACGGCACCCGAGCCCTGAGGGTCCCAGCCCCG
 CGCTCCGCGTCCCCGGGACAGCATGGAGCGCCCGAGCCCGAGCTGATCCGGCAGAGCTG
 GCGGGCAGTGAGCCGACGCCGCTGGAGCACGGCACCGTCTGTTTGCCAGGCTGTTTGC
 CCTGGAGCCTGACCTGCTGCCCCCTTCCAGTACAACCTGCCGCCAGTTCTCCAGCCCAGA
 GGACTGTCTCTCTCGCTGAGTTCCTGGACCACATCAGGAAGGTGATGCTCGTGATTGA
 TGCTGCAGTGACCAATGTGGAAGACCTGTCCTCACTGGAGGAGTACCTTGCCAGCCTGGG
 CAGGAAGCACCGGCAGTGGGTGTGAAGCTCAGCTCCTTCTCGACAGTGGGTGAGTCTCT
 GCTCTACATGCTGGAGAAGTGTCTGGGCCCTGCCTTCACACCAGCCACACGGGCTGCCTG
 GAGCCAACCTACGGGGCCGTAGTGCAGGCCATGAGTCGAGGCTGGGATGGCGAGTAAGA
 GGCGACCCCGCCCGCAGCCCCCATCCATCTGTGTCTGTCTGTTGGCCTGTATCTGTTGT
 AGCCCAGGCTCCCAAGCTTCCCTGCATCTTGGTCTTGTCCCCTTGGCCACACTGGAGA
 GGTGATGGGGCAGGGCTGGGTCTCAGTATCCTAGAGTCCAGCTGCAGAAGGAGTGGCTTT
 TCCTCCAGGAAGGGGCTTCTGGGTGTCCCCTCATCCCCAGTAGCCTCTTTCTTGCCTTTC
 TTTTACCTTTTTTGGCACTCCCTCTGACCCCGCATGAGTGTTTGGTGGCAGAGGTGG
 GATGAGCTGGAAGGTATGGAGGTGGGAGAGGATGGGGCTCTTCTGTCTGCTGCTTCT
 TCAGGTGAGTGCAGGCCAAGCGGGGTGAGATGGCTGAGCTTCCAGCGCCTTCTGTCT
 GCCTGCCAGTCCCTTCACTGCTTCTGCCCCAAGATGGCTTGTCTTTCACAAATAAAG
 AGAAAGAGCAGCTTTAGCCTTCTTGGTGAATCCCAGGCAGTGGGAGCAGAATCAGAACT
 GCCAGGGAAGGGAAGGGGACCTGGGTCTCAATGGGTCTCATTTGAGTCTCGCGGGCTGT
 GCAGATGCCCTGACAGAGTCGGTTTCTTTGGCGGCATTCCCTTCCCTCATTACGACT
 TCTGCTGGGAACCTCCCTGACTATTCCGCTGCTGCAGGAACCCAGCTAGCTGGCCAGGTGG
 GGAGGGGCTGGGACCGGCCAGGAAGGAGGGGTGACTTCATCCCAGAGAGACCCGAGTTT
 CCCAGCCCTTCAACCAACCCGCTCCTGCAGGAGTGAGTCTTACCTCCCTGGCCCTC
 CTTTCTGGCTCAGCCTGCAGCGACTGTGAGGCCACAGCTCCTCAGATTCACTGCCCGCTG
 TGTGCCAGTACTCAGGCAGCTGGAGAGAAGAGAAGGCAGCAGCAGAGGCCCGCCCTCA
 CCCCAGCCATCTGCATTGTACCATTTGCTCTGTGCTGACTGTGGTCTATAAATTCATG
 AGAAATAAACTGGTTCTGTGTGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
 AA
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_021257 unedited
 NACGTTAAGATTTTGTAAATACGACTTACTATNAGGGCGGCGCGCATTCCCGGGATCGCG
 TCGCGNAGAGATGGCGCGGCACGTGCGGTGACGGCACCCGAGCCCTGAGGGTCCCAGCC
 CCGCGCTCCGCGTCCCCGGGACAGCATGGAGCGCCCGAGCCCGAGCTGATCCGGCAGAG
 CTGGCGGGCAGTGAGCCGACGCCGCTGGAGCACGGCACCGTCTGTTTGCCAGGCTGTT
 TGCCCTGGAGCCTGACCTGCTGCCCTCTTCCAGTACAACCTGCCGCCAGTTCTCCAGCCC
 AGAGGACTGTCTCTCTCGCCTGAGTTCCTGGACCACATCAGGAAGGTGATGCTCGTGAT
 TGATGCTGCAGTGACCAATGTGGAAGACCTGTCCTCACTGGAGGAGTACCTTGCCAGCCT
 GGGCAGGAAGCACCGGCAGTGGGTGTGAAGCTCAGCTCCTTCTCGACAGTGGGTGAGTC
 TCTGCTCTACATGCTGGAGAAGTGTCTGGGCCCTGCCTTCACACCAGCCACACGGGCTGC
 CTGGAGCCAACCTACGGGGCCGTAGTGCAGGCCATGAGTCGAGGCTGGGATGGCGAGTA
 AGAGGGCAGCCCGCCCGCAGCCCCCATCCATCTGTGTCTGTCTGTTGGCCTGTATCTGT
 TGAGCCCATGCTCCCCAAGCTTCCCTGCATCTTGGTCTTGTCCCCTTGGCCACACTGG
 AGAGGTGATGGGGCAGGGCTGGGTCTCAGTATCCTAGAGTCCAGCTGCAGAAGGAGTGGC
 TTTTCTCCAGGAAAGGGCTTCTGGGTGTCCCCTCATCCCCAGTAGCCTCTTTCTTGCCT
 TTCTTTTACCTTTTTTGGCACTCCCTCTGACCCCGCATGAGTGTTTGGTGGCAGAAG
 TGGGATGAGC

Restriction Sites: Please inquire

ACCN: NM_021257

Insert Size: 1711 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none"> 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_021257.3</u> , <u>NP_067080.1</u>
RefSeq Size:	1885 bp
RefSeq ORF:	456 bp
Locus ID:	58157
UniProt ID:	<u>Q9NPG2</u>
Cytogenetics:	14q24.3
Gene Summary:	This gene encodes an oxygen-binding protein that is distantly related to members of the globin gene family. It is highly conserved among other vertebrates. It is expressed in the central and peripheral nervous system where it may be involved in increasing oxygen availability and providing protection under hypoxic/ischemic conditions. [provided by RefSeq, Jul 2008]